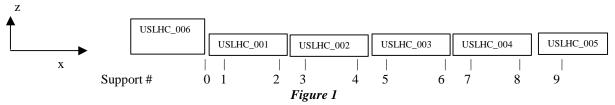
Spacers for the HXTU - 1.4 % slope

Goal: Design spacers at CERN, in order to install the HXTU set-up on a 1.4% slope.

If we consider that the feed-box will be the lowest point, we need to add extra spacers underneath the 4 modules and the turnaround external supports.

Information

The sketch (figure1) names each external support along the HXTU.



The reference 0. is given by the feed-box interface (beginning of the HX corrugated). see figure 2.

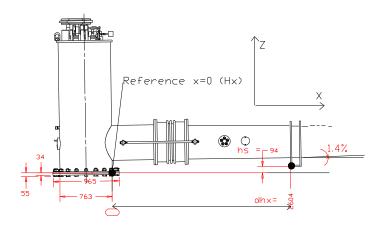


Figure 2

We consider that:

- **dhx** is the distance from this reference to the given support # (figure 2),
- **hs** is the minimum height for which each support should be raised. (figure 3).

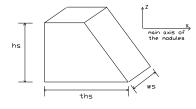


Figure 3

For stability reason, the and we, should be of the order of:

- > (152+hs) mm for ths,
- > 560 mm for ws.

(see support dwg #364002)

Note: Figure 3 is only for information..

Furthermore, the bolted Feed-box button plate, should not be directly in contact with the floor. It could be supported by a cylinder, OD 763 mm (see figure 1).

Table 1 gathers the 9 values , dhx and hs.

| Support # | dhx [mm] | hs [mm] |
|-----------|----------|---------|
| FB | 0 | - |
| 1 | 2604 | 94 |
| 2 | 6519 | 149 |
| 3 | 10129 | 199 |
| 4 | 14044 | 254 |
| 5 | 17653 | 305 |
| 6 | 21568 | 359 |
| 7 | 25178 | 410 |
| 8 | 29093 | 465 |
| 9 | 31408 | 497 |

Table1.

To design and manufacture at CERN:

- 1 Support for the Feed-box.
- 9 spacers to raise the HXTU.